

Title (en)

TESTING AN ENERGY TRANSMISSION NETWORK AND LOCALIZING A FAULT LOCATION IN AN ENERGY TRANSMISSION CABLE

Title (de)

ÜBERPRÜFUNG EINES ENERGIEÜBERTRAGUNGSNETZES UND LOKALISIERUNG EINER FEHLERSTELLE IN EINEM ENERGIEÜBERTRAGUNGSKABEL

Title (fr)

VÉRIFICATION D'UN RÉSEAU DE TRANSMISSION D'ÉNERGIE ET LOCALISATION D'UN EMPLACEMENT DE DÉFAUT DANS UN CÂBLE DE TRANSMISSION D'ÉNERGIE

Publication

**EP 3631482 A2 20200408 (DE)**

Application

**EP 18728820 A 20180523**

Priority

- AT 504662017 A 20170602
- EP 2018063556 W 20180523

Abstract (en)

[origin: WO2018219750A2] In order to localize a fault location (6) in an energy transmission cable (1), the following steps are carried out: detecting a first time, at which a specific partial discharge pulse is detected in the energy transmission cable (1) at a first measuring point (E1) located at one end of the energy transmission cable (1); detecting a second time, at which the specific partial discharge pulse is detected in the energy transmission cable (1) at a second measuring point (E6) located at the other end of the energy transmission cable (1); determining a fault location (6) along the energy transmission cable (1), at which the specific partial discharge pulse was generated, in accordance with the first and the second time; determining a third and a fourth measuring point from a set of measuring points located in the energy transmission cable (E1 -E6) such that the third and the fourth measuring points delimit a portion of the energy transmission cable (1), in which the fault location (6) lies and none of the other measuring points are present; detecting a third time, at which a further specific partial discharge pulse is detected in the energy transmission cable (1) at a third measuring point; detecting a fourth time, at which the further specific partial discharge pulse is detected in the energy transmission cable at the fourth measuring point; correcting the determined fault location (6) in accordance with the third and the fourth time.

IPC 8 full level

**G01R 31/08** (2020.01)

CPC (source: AT EP US)

**G01R 31/083** (2013.01 - AT); **G01R 31/085** (2013.01 - US); **G01R 31/088** (2013.01 - EP); **G01R 31/11** (2013.01 - AT US); **G01R 31/085** (2013.01 - EP)

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Designated extension state (EPC)

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